

TABLE I

cDNA	Embryo Phase	Clone	Nucleotide Sequence
SEQ ID NO.37	Late	LPS-051	GACCGCTTGTCAATGCAGAATCTGAAGAGATGCTTGGACAAACTGAACGG CACGATTGGTAGTGCCTGCAAAAGGCCTCCAGATTGCTGGAACGAACTT CATACGCTGAACAATTAGACATCTGTACGCAAGAGAATTACGATCGGCCATA AACCCCAAAGAGAAGAAAGTGTTCGAAATTCTCCAGAAAAGTCTTATGCCAC CGATTGTCTTCAACATGCATTGCAATGAAGTCTTGGATTCTACTGTGAGTG CTGATCAGCAACGGATTTGATCTGTATAGCTCTGCCGATTCTGGTTAAAGCAG CTAAGAGTTAGGCATCCAGATTGAGTTTGATCTCACAATGTTGAATACATT TCAAATCCATTGTTGGAGTAACCTAACAAACTGTACTCTTCTCCTATTCTGAA GCCCTCTGCCAGTTAAGGCAGAGAACTGAGTTACAGCGGTC
SEQ ID NO.38	Late	LPS-052	GACCGCTTGTATAAAAGGGTACCGCGTCCTGCAAACAGGGTCTTGCCATC CTGCTACAACCCCTGCAGTGGTCGCACTAGAGAGAACGAAACGTTTC CCGAATATATGGAGCAGGGAGGAAGAGTTTCTGCTGATGATCCAATCGGAGTCGA ACTGCCACCGCTGGATGAAGGGCGGCGAGGAAATCTGGGGGGCAGAGGCCGT CGCGTAGGAAATAAGAAACGATTGATATGGAACGAAAGGGCCGTCCAGGGTT CGATCCCCGGCAGGGCAGCCAGCCCCGAACAAACAAAACAATAAGAACAAACAG CAAAGTAAAAGAAAGCACCAGAAGAAACAGCAGCAGACGAAGAGTAAGGAGCTG CCACAAGCGGTC
SEQ ID NO.39	All	LPS-053	GACCGCTTGTAACTCACAGCATTCAATAACTTCTGAGGTGACATCCACCTCCAC TCAGAAAACCGGTGCATCTGCCCACCAAGCTAGATTGATCTCACTCTCGTC TCCTCTAAATTAGGAGGAACCTTCTGCTTGCACCTTCCATTGCCCTCCCCA CAAGCGGTC
SEQ ID NO.40	Middle	LPS-054	GACCGCTTGTATATAATGTGAAGACACAATAAAATTGTCACAAAGCAACCAA CGACCAAAATTTAGCTGTGACATCAAAAGCTCAACCCCTACAATGAATGTAACCT TAATCTAGAAAATTGATCCATGATCTCACTGAATTTCCTGTTCATCCTGAAGAAT GAGAAACTTAAATGTACCCGATTCCCTAACCAAGCCCCACAAGCGGTC
SEQ ID NO.41	Early	LPS-055	GACCGCTTGTAACTCACAGCATTCAATAACTTCTGAGGTGACATCCACCTCCAC TCAGAAAACCGGTGCATCTGCCCACCAAGCTAGATTGATCTCACTCTCGTC TCCTCTAAATTAGGAGGAACCTGTAATTGGTAGGGCTGTCAATAATGATCAAG ACGACCCGCATCGTGTGACGCCAGCTTAGTCTTCTACTTACTGTCTATGTAATGGTC ACGGGGCCCTTCTATGTTATGTCCTTGAATGGACGATTGTTGTTAGGTAT TCAGTTCTGAAGCTGTTGGTAGAAACTGGCTCAATCATTCTGTTGCTGAA CTTCCATTGCCCTCCCCACAAGCGTCAGCCGAATTCTGCAGATATCCATCACCT GGGGGGGCCGCTGAACATGCATCTAGAAGGCCAACCCCTATATGAAATTCTATT AATCCCTGGCCTCGTTA
SEQ ID NO.42	Early	LPS-056	GGTGCATCCAGAAAATCATCTCACTGCTCGTGAACAAATGCTGGTCAT AGCCATCACTAAGGCTAAGGTACTATCCAGCCAAACTGATCTCAAATAATTCA TAAGCTTAAATAATAGTCCAGCCAGTAGATGGAGCCAAAAGCCATAGAAGCTTC AAATACTTGTGGTATCAATCTCCTCTGTTAAGGGAGGTACAGATCAGAACACT AATCAAATGCATACATAATGCAGTAGACTGCAATAAAACAAATCTGCAGATAGCA ACAGAGCGCTAACGAACGGAAAAGAGTTAACCTGATCTACAGGATCGCACC
SEQ ID NO.43	All	LPS-057	GGTGCATCCAGAAAATCATCTCACTGCTCGTGAACAAATGCTGGTCAT ATCTAATTGGAAATTGTGGCATAAAGCTCCACAGTGTAGGTGGCTAATCCCA TGAAACATTACTCTTCAAAACATCATACAACCTGAGGTGGAAATTGCAAAGATTATT ACTGGATGCTGATCTGGACTAAGGTGGTGGCCATTGTTAATGTTGTTGAGAA ATATATCTTCACTGATGATGAGTAGTTGCATCTGGTTGAAAGAATGATAAATTCTGGT AATTGTCTGGATCGCACC

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cDNA	Embryo Phase	Clone	Nucleotide Sequence
SEQ ID NO:44	Late	LPS-058	GGTGCATCCAAGTAGAAGAATATAAGAAAAATTACGGACTACCAGAAAACATCA CATCACAGTGTATTGCATTCTCAATAATCAGAACTGTACTGGCTAATATCGCTGTGC CTGTCGTTCATTTCTGTCAATCCGCATAGGGCCCTCATTTCCCTATCTTGCAG AAATCCAAGAAATGCAAGAAAACCAAAAGGAAGAAACCCCCAGAGGAAGAGTCCG AAGAGGATATGGGTGTCAGTCTTTGACTAGATTGGAGGATCGCACC
SEQ ID NO:45	Early	LPS-059	GGTGCATCCCAGAACATTACAGACAGATTAAAACAAGATCTAGTCATTCTACAA GGGAAACTTTGTCAAGATCCGGATCCAGATTTCCTCAAGTAAAACATACTCATT AAATCCAAGCCAATCTCTAGCAAAATTCAAACACTTTTATTAAATCCAAGCCATATA TCTGGCAAATTACCGAAATATGTACAATCGCAGCGATTGCTGGCTTGCAG AAACCATATTGCACGTCTCATAAGGCTTGGATCGCACC
SEQ ID NO:46	All	LPS-060	GGTGCATCCAACAACACAGCTCACACTTACTCCATCCTCTGGAACTCTCATCAG ATTGTGTTCTCGTAGACCAAGTTCTGTGAGAGTCCACAGGCACACTGAGGCTAC AAGCGATGTGTTCCCTAAAGAACAGGGATGTACATGTTCCAGCATTGGAATG CAGACGACTGGGCAACCAGGGTGGCTGGAGACAAACTGGACTGCCGCTC CATTAGCGGATCGCACC
SEQ ID NO:47	All	LPS-061	GGTGCATCCCAACACCAAGTGAGAATGAAGCAATATAATCAGCAGACTCACTAA AGCCAAAACAGTAAAAATGTTCATATTGGAATCTGCTCAGAATGAGCCTCAA GTAAAATGACAAACTAACGAGGAAGAGACATACGGCCATGCCAGATGAGACC ATGAGGAGGAGACGTCGTCGGCTTATCCATGAGCCATACAGCAACTGCAGTCAT GATGACCTGGATCGCACC
SEQ ID NO:48	Late	LPS-062	GGTGCATCCAGGAAATCATCAAAGGGAGCACATCCAATGTGAAAATAAGATCA TCATGCAGCAAGATCTCTGAAATATAAGCTCTGTAAAGACCAATCTGAAGTGCTGATG ATCAATATGAACTGAAACATCATGCCACAATGGGCTGGTACTTGTGCAAATTCTCT GGCATGTGATGAGAATCACATGGTTACCTCTTGGATCGCACC
SEQ ID NO:49	Early	LPS-063	GGTGCATCCAAAGAGCCTCTTGCAGACAATCCGTGAAAACATGGCTATAAATA AATTCCCAGTTGAAATTCTAAATAAAACTGTTCAATATTGAAGGCCTCTGATATCA CAGAGACTGATATTAGAATGGAAGCATGTAGCAACCTAGAAGCTTCGATCAAAG ATACCAGATTAATTATAAGAAGGATCTCGTACCCAGTCACATATCACAGTCGG ATCGCACC
SEQ ID NO 50	Late	LPS-064	GGTGCATCCGTTAGATGAGCTGCCAAGTATGGAATTATTGACATTGGACGGG TTATGGCAGAGGGATGTGCCAAGCTGAAGAAGATACCGGGTTGGAGCAAGCCA CAAAACTTCGAGAGTTAGATGTTAGTGGCTCCCTCAGTTAGATGAGCTGCCAAGT ATGGAATTATTGACATCTTGGACGGCTTGTGGCAAAGGGATCGCACC
SEQ ID NO:51	Middle	LPS-065	GGTGCATCCACATAGTTGAATGCAAGGAAATTGCACATACTCGTGGGAATT CGATGGCAAATCAGTCCAGGTAAATGACTCTCAACATAGGTCCAAAACCTCTTCA AGACCAGATCTTGACCGTGTGTCCATGCCACAGCTGCAATACGATATACTG AAGGATGAAAATCTACACTGAGAACCTTCATTGCGATGTCCCCCAGCTCCAGCAAAT ATCAAATGCATATTCCAGTTGAACATTCCAGAGTCGTACAGATTCATCTTGCTA GCAGATAAAATAAGGGAGGTTCAAGTTGCTTGGCTTATTTCATTACAGAACT CCATGGCCAACGAAACTCTTATGGACTTTCAATTGCACATCCATTCTGAATTATA CATTGTGACCGCAGCCACTAATAATGGGAACATCACTCGCCTGCCACTTATGTG TTAAAGAATC
SEQ ID NO:52	Late	LPS-066	GGTGCATCCCTCCATTACCATGGTATACTGTTCAAAGGTTCCAGAGCCTAGC TCTTCAATTCTCAAGGTCAAGCTCAGCATTCTTATTATCTGGAAACTTCGCTAGCTGTG CTATAATCACGAAACCCAGACGGGAACATAAGGCGATGAAGTTCTCTTATCCA TAACCGTTGCAAAGATCTTACACGGAGTTCTTCTCGTGGCTTCTTC CCGTATTCTCGGATCGCACC

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cDNA	Embryo Phase	Clone	Nucleotide Sequence
SEQ ID NO:53	Late	LPS-067	GGTGCATCCATACATGCGAGGGCGATGAGAGACTACCACAAATCCTACATACCTCCATTACCCCTGGATCGTTATAAGGATTGGGTGGCTAAAGTGATACTCTC AAATCACCCAGACTTCAGAGAGGGTACTTGTATCTGGTACTATAGGATGGGAAGAGTACAGCATAATACCAAAAGGGAGTAACCTAAGAAAGATCAAATACGGACGTAC CACTTCATATTTGTGGGTTTAAGAATGCCGGGTTACTGCTATGCTGGAT TCTTGAAAGTTGCTCTCCTAAAAAGGGGGAGCATGTTTGTCTGCCGCTCA GGAGCTGTTGCCAGCTTGGGACTTGCAAAGTTGATGGGTGCTATGTTGTTAGGGAGCGGGTAACAAACAGAAGGCTGATCTGCTGAAACACATAAAATGGGCTTGATGATGATCTCCACCATAACGAGGAGCATGACTTCGATGTGGCTTAAAAAGGCA TTTCCAGATGGGATTGCACC
SEQ ID NO:54	Late	LPS-069	GGTGCATCGAACTGAATGAATGACGTTGCCAAGCTATGTTGGATTAAACCTTGAATGCCGTTATTCTCTCCTTTCCAAAAGGGCCTTCTGCCAGAAACCTTAAATTTCTGACTGGTTCCAAGTCCAATTAAATGGATTGGTTACCATTGAAGG CACCACCATGCTCTGAAAGTTATGGACTGCACTGCCAGTGCTATATTAGTCC AGATAGCGCTTGTCTCTAAATGCATCTCCCTGCTCGGATATCACC
SEQ ID NO:55	Late	LPS-070	GGTGCATCCGAACAGAGGGAGCAGATTGCCCTGCAAGTATTACAACATTAGAGAAGCCCTGCCAGAGATATGGGAGGAAGAAGATGCAGAGAACACCAAAATGTTGGGGATCAAGAGGGAGCGGATGCAACTATAGAAACTGTTGTCACGGCATAAGCCA TCGCCTCATTGAATGAGGGATGGAGGACTAGACAAATCCCTGGATCGCACC
SEQ ID NO:56	Middle	LPS-071	GGTGCATCCGATTGGCAGCTGCAGCCTGGAGCTTAAATCACAACATTGAC TCATCCTCCAGGAGGTATTGAGAAGTCAATTCTCAAGGTCTACAGTGACAGAAGGAACCATTTGACA AACCATCTGACAATCTTATCAGGTTCTGCTCTGGTAAACACTTCAACTTGCAGGACGAGAGAATGTGACTATTGAC AGGACTGAAAGATACTGATCATCACTAGGGCAAGAATTGATGATTGATATCTCT CAAGAAACAAAGATACTGATCATCACTAGGGCAAGAATTGATGATTGATATCTCT GGAGAAGCCAGTGTTACATTGGTTGCTCATGGCCACCAAGTCTATGGCATAAAAG CTTCCCAGGGTACTTGGCAGATTAAACAGAGCCCACGTTATTTAAGGCC CATCTCTTGCTCTCAAAATTCTGCATCCTCTGGAGAATATAAAACCCCTGG TGTCTCTTCCACAAACACCTCTCATTGATC
SEQ ID NO:57	Late	LPS-072	GGTGCATCCAACGTGAGAAGGGTGGGGAGATGACACCAAGTGGTTCT ATATTCTCCAGAGGATGCAAGAAAAATTGAGAGAAAGAAGATGGGCCCTAAATA TAACGTGGGGTCTGTTAAATCTGCCAAGTACCCCTCAGGAAAGTTATGCCATAG ACTTGGTGGCCATGAAGCAAACCAATGTAAACACTGGTCTCCAGAGATATCAAAATCATCAATTCTGCCCTAGTGATGATCAGGAAGATGTAGAGTCTGATGAAGAAGAT GAATTAGTCACATTCTCGTCCTGTCAAAGTTGAAGTGCTTAACCAGAGCAGGAA ACCTGATAAGATTGTCAAGATGGTCCTCTGTCAGTGACTGACCTTGAGAAATTGAC TTCTCAATACCTCCTGGAGGATGAGTGCAATTGATTCTAAAGCTCCCAAGGCTG CAGCTGCCCAATCGGATCGCACC
SEQ ID NO:58	Late	LPS-073	GGTGCATCCATGTAGTGCCAACTTACGAGATCAACTTAAACTATCATGCAA TTGGCCAATAGAAGCGACACTTGCTGTGCCAAAGTATCGATAGGCTACTCCCGATG GCTCAATCATATAGTTGGGCCATCTCTATCATAACCTCCAAGGATAACTCCAG ATCCAAAAGGCCTAACCAATATAGTGTGCACAAATGCACATAACTGGCAACA CGTTCACAAAGTTCTTAAT
SEQ ID NO:59	All	LPS-074	GGTGCATCCCATGGATAGTGCAAGACACAAATTGTTGTGAAAGAAGAGAG ACACGCACAGACAACCATATGATCTTTTTTTTTTTTTTTTTTTTTTTTT TTAGCAAAATTCAAACACTTTTATTAAATCCAAGCCATATCTGGCAAATTCAACCG AAATATGTACAATCGCAGCGATTGCTGGCTGCGACAGAAACCATATTGCGAC TCTTCATAAGGCTTGGATCGCACC

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